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Claims

- 1. A telecommunication network having at least one access network (2), a core network (7) connected to said access network (2) via a first interface (Iu), and at least one terminal device (1; 1a, 1b, 1c),
- a) wherein said core network (7) comprises at least one access network control device (3) adapted to control at least one gateway device (5) via a second interface by transmitting a control information; and
- b) wherein said telecommunication network is adapted to route user data directly between said access network (2) and said at least one gateway device (5) via said first interface.
- 2. A telecommunication network according to claim 1, wherein said first interface is connected via a transmission network directly from said access network (2) to said gateway device (5).
- 3. A telecommunication network according to claim 1, wherein said second interface is connected via a transmission network and another access network control device (4) to said gateway device (5).
- 4. A telecommunication network according to claim 1, wherein said second interface is connected via said access network (2) and said first interface to said gateway device (5).
- 5. A telecommunication network according to claim 1, wherein said user data comprises real-time data.

- 6. A telecommunication network according to claim 5, wherein said user data comprises speech, audio, and/or video data.
- 5 7. A telecommunication network according to claim 6, wherein said user data is transmitted using the RTP.
- 8. A telecommunication network according to claim 1, wherein said second interface is adapted to use the ISUP 10 protocol.
 - 9. A telecommunication network according to claim 1, wherein said second interface is adapted to use the MGCP protocol.
 - 10. A telecommunication network according to claim 1, wherein said access network is a radio access network (2).
- 11. A telecommunication network according to claim 1,20 wherein said user data is routed via a packet network.
 - 12. A telecommunication network according to claim 11, wherein said packet network is an ATM network.
- 25 13. A telecommunication network according to claim 11, wherein said packet network is an IP network.
- 14 A telecommunication network according to claim 1, wherein said control information is transmitted via a TDMA network.
 - 15. A telecommunication network according to claim 1, wherein said control information is transmitted via a packet network.

- 16. A telecommunication network according to claim 15, wherein said packet network is an ATM network.
- 5 17. A telecommunication network according to claim 15, wherein said packet network is an IP network.
 - 18. A telecommunication network according to claim 1, wherein said telecommunication network is a UMTS network.
 - 19. A telecommunication network according to claim 1, wherein said access network control unit is a mobile switching center (3).
- 15 20. A telecommunication network according to claim 1, wherein said first interface is an Iu interface.
- (2) to a gateway device (5) of a core network (7) connected 20 to said access network (2) via a first interface, comprising the steps of:

21. A method for routing user data via an access network

- a) controlling said gateway device (5) by supplying a control information from said core network (7) to said gateway device (5) via a second interface; and
- 25 b) routing said user data directly between said access network (2) and said gateway device (5) via said first interface.
- 22. A method according to claim 21, wherein said control information is supplied from said second interface to said access network (2) and subsequently via said first interface together with said user data to said gateway device (5).

- 23. A method according to claim 21, wherein said control information is supplied from said second interface via an access network control device (4).
- 5 24. A method according to claim 21, wherein the ISUP protocol is used in said second interface.
 - 25. A method according to claim 21, wherein the MGCP protocol is use in said second interface.
 - 26. A method according to claim 21, wherein said first interface is an Iu interface.